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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/008,337	11/08/2001	Peter W. Green	GB 000164	3424	
24737	7590 12/16/2003		EXAM	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			VOCKRODT, JEFF B		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER		
	,		2822		

DATE MAILED: 12/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Application No. 10/008,337 GREEN, PETER W. Examiner 2822						
Examiner Jeff Vockrodt Jeff Jeff Vockrodt Jeff Jeff Vockrodt ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Lethersions of time may be veniable under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed either StX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutury period will apply and will expire StX (6) MONTHS from the mailing date of this communication. Papillar to reply within the statuture on the period will apply and will expire StX (6) MONTHS from the mailing date of this communication. Papillar to the province of the communication. Failure to reply within the statutery period will apply and will expire StX (6) MONTHS from the mailing date of this communication. Papillar to the province of the communication. Failure to reply within the statutery period will apply and will expire StX (6) MONTHS from the mailing date of this communication. Papillar to the communication. Papillar to the province and papillar them adjustment. See 37 CFR 1.734(b). Status 1) Status 1) Sepposition of Status and St						
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application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application since a specific reference was included in the first sentence of the specification or in an Application Data Sheet 37 CFR 1.78.						
 a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific 						
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

Application/Control Number: 10/008,337

Art Unit: 2822

DETAILED ACTION

This office action is in response to the amendment filed on 9-30-03. Claims 1-24 are pending. Claims 1-11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 12-13, 15-19, and 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 3743163 A1 ("Kerzel"), English Abstract.

Kerzel discloses a printed circuit board for an electrical circuit. Regions 13, 14, 15 are cut out of the circuit board to allow the rigid portion to fracture. Flexible conductive links (20,21) hold the fractured portions of the PCB together.

Claim 12 reads on Kerzel (Figs. 1-3) as follows: An electronic device comprising a layer of rigid material (PCB 2,3,4) having electronic components (5) mounted directly thereon, contiguous portions (2 or 3 or 4) of the rigid layer being defined by weakened regions (12, 13, 14, 15, 16) of the rigid layer, and flexible connectors (20, 21) extending between components on different portions.

Application/Control Number: 10/008,337

Art Unit: 2822

Claim 17 reads on Kerzel (Figs. 1-3) as follows: An electronic device comprising a layer of rigid material (PCB 2, 3, 4) having electronic components (5) mounted directly thereon, and flexible connectors (20, 21) extending between components on different contiguous portions (2 or 3 or 4) of the rigid layer, the rigid layer being divided into the contiguous portions such that the device is flexible (see Fig. 3).

Claims 13 and 18-19. The weakened regions comprise grooves (13, 14, 15) extending through the entire thickness of the rigid layer.

Claims 15 and 21 require, among other limitations, wherein the connectors comprise electroplated metal. The term "the connectors" refers back and further limits the "flexible connectors" of independent claims 12 and 17, respectively, to comprise electroplated metal. Claims 15 and 21 are product claims. In re Thorpe, 227 USPQ 964, 966 (Fed.Cir. 1985) ("[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself.") The term "comprising electroplated metal" fails to limit the claimed structure of the product beyond what is shown by Kerzel.

Claims 16 and 22. The flexible connectors (20, 21) comprise a bridge-like portion (see Fig. 2).

Claims 23-24. The flexible PCBs (electronic devices) discussed above are mounted within the 3-dimensional volumes of office machines (an article) (English Abstract).

Allowable Subject Matter

Claims 14 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14 and 20 require, among other limitations, the rigid layer to be mounted over a flexible substrate. Kerzel meets the other limitations, but shows a PCB that is not mounted over a flexible substrate. None of the references of record teach or suggest modifying Kerzel's flexible connector PCB to be mounted over a flexible substrate.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning communications from the examiner should be directed to Jeff Vockrodt at (703) 306-9144 who can be reached on weekdays from 9:30 am to 5:00 pm EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian, can be reached at (703) 308-4905.

The fax number for this Group is 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist at (703) 308-0956.

December 2, 2003

J. Vockrodt